



FIG. 1

P4 P1 1

1 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 75
 2 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 75
 3 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 30
 4 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 30
 5 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 30
 6 MWSWKCLLFWAVLVTATLCTARPSPTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWL RDGVQLAE 30

ARR

SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPNP 148
 SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPNRM 150
 SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPN 59
 SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPN 61
 SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPN 59
 SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEKETDNTKPN 61

2

VAPYWTSPKMEKKLHAPPAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRI GGYKVRYATWSIIMDSVVP SDK 223
 VAPYWTSPKMEKKLHAPPAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRI GGYKVRYATWSIIMDSVVP SDK 225
 VAPYWTSPKMEKKLHAPPAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRI GGYKVRYATWSIIMDSVVP SDK 134
 VAPYWTSPKMEKKLHAPPAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRI GGYKVRYATWSIIMDSVVP SDK 136
 VAPYWTSPKMEKKLHAPPAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRI GGYKVRYATWSIIMDSVVP SDK 134
 VAPYWTSPKMEKKLHAPPAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRI GGYKVRYATWSIIMDSVVP SDK 136

3

GNYTICIVENEYGSINHTYQLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPOPHIQWLKHIEVNGSKI 298
 GNYTICIVENEYGSINHTYQLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPOPHIQWLKHIEVNGSKI 300
 GNYTICIVENEYGSINHTYQLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPOPHIQWLKHIEVNGSKI 209
 GNYTICIVENEYGSINHTYQLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPOPHIQWLKHIEVNGSKI 211
 GNYTICIVENEYGSINHTYQLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPOPHIQWLKHIEVNGSKI 209
 GNYTICIVENEYGSINHTYQLDVVERSHPRPILQAGLPANKTVALGNSNVEFMCKVYSDPOPHIQWLKHIEVNGSKI 211

P2

GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 373
 GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 375
 GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 284
 GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 286
 GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 284
 GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPLYL 286

IM

EIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSMVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS 448
 EIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSMVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS 450
 EIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSMVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS 359
 EIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSMVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS 361
 EVSWEORAGMGGAGL* 300
 EVSWEORAGMGGAGL* 302

TK

SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLAIAIGLDKDKPNRVTKVAVKMLKSDATEKDL 523
 SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLAIAIGLDKDKPNRVTKVAVKMLKSDATEKDL 525
 SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLAIAIGLDKDKPNRVTKVAVKMLKSDATEKDL 434
 SSGTPMLAGVSEYELPEDPRWELPRDLVLGKPLGEGCFQGVVLAIAIGLDKDKPNRVTKVAVKMLKSDATEKDL 436

SDLISEMEMMKIGKHKNIIINLLGACTQDGPPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPEEQ LSSKDL 598
 SDLISEMEMMKIGKHKNIIINLLGACTQDGPPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPEEQ LSSKDL 600
 SDLISEMEMMKIGKHKNIIINLLGACTQDGPPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPEEQ LSSKDL 509
 SDLISEMEMMKIGKHKNIIINLLGACTQDGPPLYVIVEYASKGNLREYLQARRPPGLECYCNP SHNPEEQ LSSKDL 511

VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFG LARDIHHIDYKKTNGRLPVKWMAP EALFDR 673
 VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFG LARDIHHIDYKKTNGRLPVKWMAP EALFDR 675
 VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFG LARDIHHIDYKKTNGRLPVKWMAP EALFDR 584
 VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFG LARDIHHIDYKKTNGRLPVKWMAP EALFDR 586

TK

IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQL 748
 IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQL 750
 IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQL 659
 IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQL 661

VEDLDRIVALTSNQEYLDLSMPLDQYSPSFPDTRSSSTCSSGDSVFSHEPLPEEPCLPRHPAQLANGGLKRR* 820
 VEDLDRIVALTSNQEYLDLSMPLDQYSPSFPDTRSSSTCSSGDSVFSHEPLPEEPCLPRHPAQLANGGLKRR* 822
 VEDLDRIVALTSNQEYLDLSMPLDQYSPSFPDTRSSSTCSSGDSVFSHEPLPEEPCLPRHPAQLANGGLKRR* 731
 VEDLDRIVALTSNQEYLDLSMPLDQYSPSFPDTRSSSTCSSGDSVFSHEPLPEEPCLPRHPAQLANGGLKRR* 733

FIG. 2